

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/070455 A1

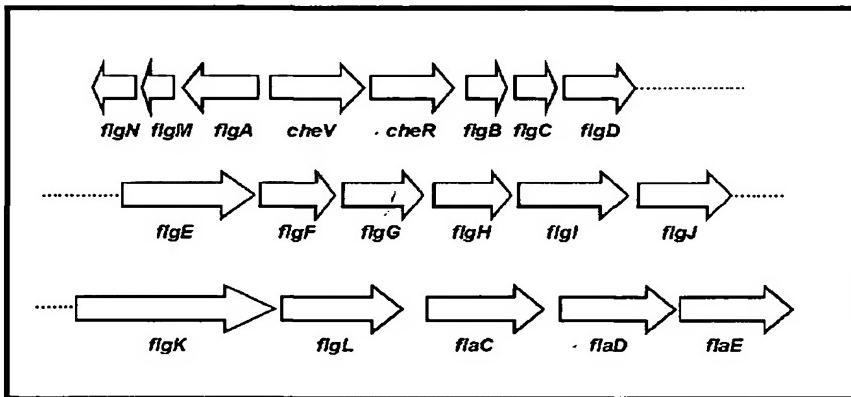
- (51) International Patent Classification⁷: **A61K 39/39**
- (21) International Application Number:
PCT/KR2005/000103
- (22) International Filing Date: 12 January 2005 (12.01.2005)
- (25) Filing Language: **Korean**
- (26) Publication Language: **English**
- (30) Priority Data:
10-2004-0001974 12 January 2004 (12.01.2004) KR
- (71) Applicant (for all designated States except US): **CHON-NAM NATIONAL UNIVERSITY [KR/KR]; 300, Yong-bong-dong, Buk-gu, Gwangju 500-757 (KR).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **RHEE, Joon Haeng [KR/KR]; 101-1101, Hyundai Apartment, 100, Duam-dong, Buk-gu, Gwangju 500-767 (KR). LEE, Shee Eun [KR/KR]; 201-1106 Hyundai 2nd Apartment, Duam1-dong, Buk-gu, Gwangju 500-101 (KR). KIM, Soo Young [KR/KR]; 594-5, Hwajeong1-dong, Seo-gu, Gwangju 502-241 (KR).**
- (74) Agent: **YOON, Dong Yol; YOON & LEE International Patent & Law Office, 9th Fl., Yosam Bldg., 648-23, Yoksam-dong, Gangnam-gu, Seoul 135-748 (KR).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EB, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MUCOSAL VACCINE ADJUVANTS CONTAINING BACTERIAL FLEGELLINS AS AN ACTIVE COMPONENT



WO 2005/070455 A1

(57) Abstract: The present invention relates to mucosal vaccine adjuvants containing flagellins, the structural component of flagella, originated from *Vibrio vulnificus*, *Salmonella typhimurium*, and *Listeria monocytogenes* as an active component.